

OFFICE OF THE DEPUTY DIRECTOR FOR
SCIENCE AND TECHNOLOGY

MISSION:

The Deputy Director for Science and Technology is responsible for the conduct of basic and applied research and development in the scientific and technical fields in support of the Agency, and for appropriate liaison and contact with the scientific community as well as all government agencies on matters of science and technology in intelligence.

He shall direct and coordinate the Offices of Computer Services, ELINT, Research and Development, Special Activities, and Scientific Intelligence and the Foreign Missile and Space Analysis Center and furnish technical planning, program guidance, and support to other Agency components utilizing science and technology in support of their functions.

The DD/ST shall serve as Chairman of the Agency Research and Development Review Board and perform duties related to the Scientific Advisory Board and national reconnaissance activities as directed by the DCI.

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FUNCTIONS:

The Deputy Director for Science and Technology shall:

- a. Establish and maintain basic and applied research and development programs in scientific and technical fields to support Agency needs;
- b. Conduct advanced research and development, and operate certain technical collection projects and systems;
- c. Produce and disseminate scientific and technical intelligence;
- d. Conduct computer systems research and development and, as directed, operate automatic data processing equipment in support of internal and external Agency functions and missions.
- e. Establish and operate a specialized center in which all information relating to foreign missile and space events is correlated, analyzed, and reported to the Director and appropriate USIB agencies.
- f. Establish and administer a scientific career service to provide for the enhancement of career opportunities in the Agency.

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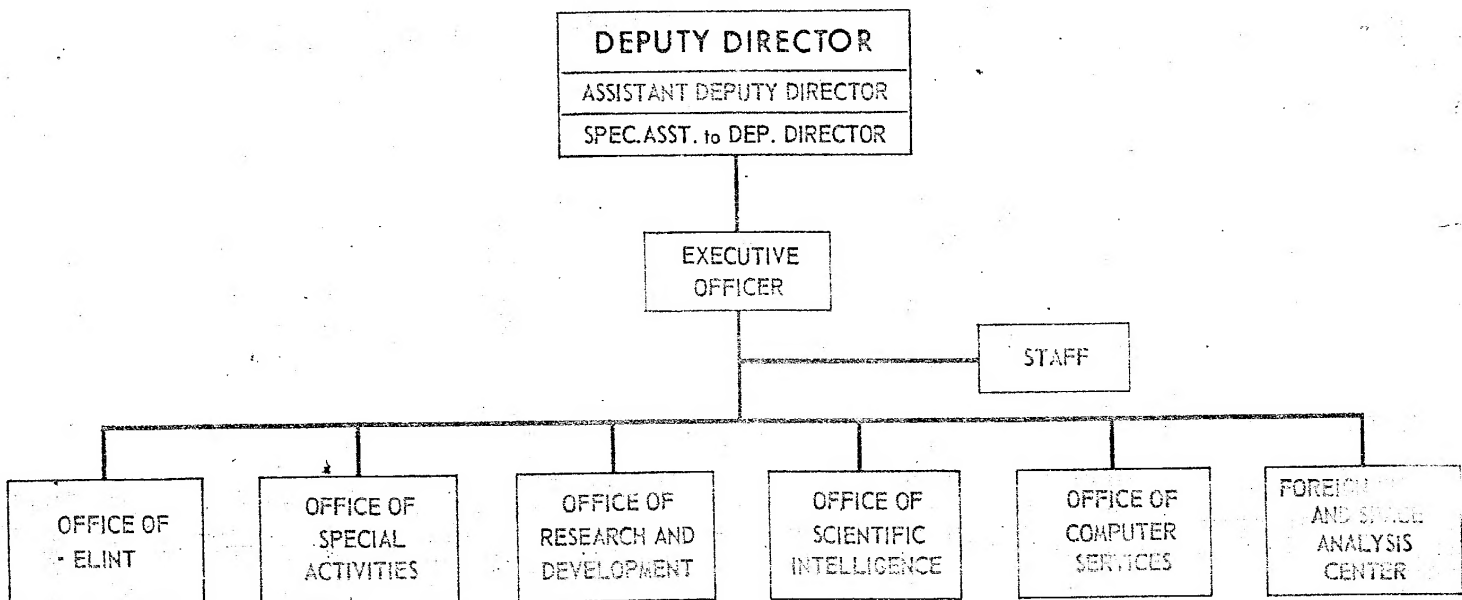
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DEPUTY DIRECTORATE FOR SCIENCE AND TECHNOLOGY



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OFFICE OF COMPUTER SERVICES

MISSION. The Assistant Director for Computer Services is responsible for developing and operating a central computer services organization for CIA in support of requirements from all parts of the Agency; providing policy, coordination, technical, and other support to all automatic data processing activities in the Agency; consolidating and reporting information to Agency management on CIA's automatic data processing activities; and representing the Agency on automatic data processing matters with other Government and non-Government organizations.

FUNCTIONS. The Assistant Director for Computer Services shall:

- (a) Evaluate data processing requirements and provide appropriate computer support to Agency components.
- (b) Perform automatic data processing systems analysis and design functions.
- (c) Write or externally acquire computer programs as needed for mathematical, scientific, language processing, information handling, business or administrative applications, and other automatic data processing requirements.
- (d) Perform data analysis, reduction, transcription, and other services pursuant to the conversion of data to machine readable language.
- (e) Equip and operate the central CIA Computer Center to perform scientific computing, language processing, information handling, business or administrative applications, and other automatic data processing operations for the Agency.

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OFFICE OF COMPUTER SERVICES

- (f) Review Agency automatic data processing operations to further intersystem coordination and integration where advantageous and appropriate.
- (g) Provide technical and operational support to other automatic data processing facilities which supplement the Agency's central computer organization.
- (h) Review all requests for purchase or lease of automatic data processing equipment; review all requests for the transfer or disposal of automatic data processing equipment; approve, disapprove, or modify such requests or, when appropriate, refer to the CIA Automatic Data Processing Committee for its recommendation to the Assistant Director for Computer Services.
- (i) Assemble and maintain central records on the Agency's automatic data processing equipment inventory, rental costs, utilization statistics and related data and prepare reports for Agency management on CIA-wide automatic data processing activities.
- (j) In collaboration with the Office of R&D, DD/S&T, the Office of Logistics, DD/S, and other appropriate Agency components, review contracts for personal services, programming, computer processing, and for research and development of equipment to support automatic data processing activities; when required, serve as contracting office and provide technical and administrative monitoring of such contracts.
- (k) In consultation with the Operating Offices and the Office of Training, provide or assist in developing training programs in data processing; serve as coordination point for CIA participation in external training in the automatic data processing field.
- (l) Represent the Agency in external relations in the field of automatic data processing; identify and evaluate external sources of assistance in the data processing field.
- (m) Collaborate with the Office of Security, the Office of Communications, and members of the Intelligence Community in developing and effecting appropriate technical security measures for automatic data processing installations.

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OFFICE OF ELINT

MISSION

The Assistant Director for ELINT is charged with primary responsibility for Agency ELINT activities, with establishing and coordinating the Agency ELINT Program, with providing technical support and guidance required for analyzing and reporting the product of Agency ELINT projects, and with supervising or conducting all research and development required for Agency ELINT, related COMINT, and support activities. The Assistant Director for ELINT will plan and conduct research and hardware development programs to support reconnaissance vehicles of interest to the Agency. He will also advise the CIA SIGINT Officer in matters of ELINT policy and to maintain liaison on technical matters pertinent to the Office of ELINT with NSA and other Government agencies. In the performance of his functions in the area of DD/P responsibilities, the AD/OEL will conform to the requirements of the command structure established in the Clandestine Services.

FUNCTIONS

- a. Prepare the annual Agency ELINT Program.
- b. Prepare the technical budget requirements for DD/P ELINT projects and justify the over-all Agency ELINT budget.
- c. Provide headquarters management and support for tasking and technical guidance for field ELINT activities in coordination with the DD/P and as required, the DD/S.

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- e. Make recommendations to the CIA SIGINT Officer concerning CIA position on ELINT policy matters.

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f. Maintains Liaison regarding technical ELINT matters, and COMINT matters pertinent to OEL, with NSA and other Government Agencies.

g. Serve as the CIA member of the ELINT Advisory Group to the Director, NSA, on matters pertaining to the National ELINT Plan (Program).

h. Provide suitably qualified ELINT personnel for tours of duty in ELINT positions in other CIA offices and outside organizations, as agreed.

i. Originate, develop and control special ELINT projects in support of DD/S&T needs and operations.

j. Assure the timely availability of the most suitable collection, analysis and defensive systems equipment through a program of research and development, with due regard to the contents of similar programs in other Agencies.

k. Provide for quick reaction capability for the rapid development and limited production of high priority equipment.

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OFFICE OF RESEARCH AND DEVELOPMENT

MISSION:

The Assistant Director for Research and Development is responsible for basic and applied research and development programs in science and technology to support the needs of the Central Intelligence Agency.

FUNCTIONS:

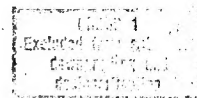
The Assistant Director for Research and Development shall:

a. Initiate and maintain plans and concepts for basic and applied research in scientific and technical fields in support of intelligence interests.

b. Probe and appraise world-wide technological discoveries and ensure that techniques, procedures, equipments, and systems resulting from them are studied and investigated for both offensive and defensive intelligence interests.

c. Conduct liaison with other government agencies engaged in research and development activities to ensure that the results of their efforts are available to Agency components; initiate actions where appropriate so that supplemental investigations peculiar to intelligence needs are specified, funded, and directed.

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d. Similarly, monitor the scientific research being conducted by universities and private enterprise throughout the U.S. and infuse the benefits of this research into development and engineering activities of the Agency.

e. Initiate and administer external contracts for a spectrum of research projects aimed at advancing the state-of-the-art in technical intelligence collection--this program to embrace as many disciplines as practical including both the physical sciences and life sciences.

f. Select from the U.S. scientific community a roster of senior scientific consultants appropriate to Agency research interests and security standards. Indoctrinate these individuals with both general and specific needs of the Agency; keep them apprised of our current research goals; conduct liaison and meetings as required to utilize their talents in bringing new technologies to the attention of the Agency and evaluating advanced research projects.

g. Coordinate with and provide support to the development programs in the TSD/DD/P, Office of Communications, and the National Photographic Interpretation Center as requested by them or as believed to be in their behalf.

h. Monitor and appraise foreign critical technical collection programs and advise the DD/S&T of the intelligence significance thereof, the opportunities and problems for technical countermeasures, and recommended courses of action for research and development activities.

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i. Act as the principal Agency line component for injecting into the Agency the DCI-approved recommendations of the Agency Scientific Advisory Board and its panels on optics, covert instrumentation, and life sciences.

j. Provide the DD/S&T representation on the Agency Research and Development Review Board and provide support to the Board and Executive Secretary as requested by the Chairman.

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OFFICE OF SPECIAL ACTIVITIES

MISSION. The Assistant Director for Special Activities is responsible for the development and operation of certain highly sensitive technical collection programs.

FUNCTIONS. The Assistant Director for Special Activities shall:

- (a) Establish and maintain liaison with other government agencies, civilian contractors, and allied nations participating in OSA programs, in order to keep abreast of developments which might directly or indirectly enhance or inhibit future OSA activities, capabilities or requirements from the political, operational or technical intelligence standpoint.
- (b) Provide security support to all components of the Office of Special Activities in the area of personnel, physical and operational security. In addition, due to the involvement of numerous commercial concerns in support of OSA's activities, the assistant director is responsible for the establishment and maintenance of sound security programs in the many commercial facilities concerned.
- (c) Act as the focal point for the intra-office coordination of all programs, projects, activities and operations; and for the maintenance of the current status of each program and activity relative to assets scheduling, problem areas, and the availability of funds.
- (d) Undertake research and development investigations of systems and/or sub-systems in the fields of aerospace, space vehicles and other designated fields for the exploitation of advanced technology for new methods of performing tasks involving the technical collection of intelligence; evaluate technical requirements in such fields as aircraft power plants,

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OFFICE OF SPECIAL ACTIVITIES

navigation systems; ground handling and support equipment; be responsible for the coordination of technical contributions in the countermeasures field to programs within the Office of Special Activities; undertake research and development in the solution to reconnaissance collection problems; be responsible for the procurement of items/or services for certain designated projects; and evaluate technical proposals, select contractors and monitor the programs through the developmental, test and initial operational stages.

- (c) Be responsible for management of all Agency assets used in covert aerial reconnaissance. He is responsible for the planning and direction of reconnaissance flights; crew training; establishment of operational equipment requirements; communications in support of operations; evaluation of all source intelligence of enemy capabilities in air defense; operational weather support; development of operational procedures and techniques; planning, programming and coordinating materiel and logistics support; and creating and implementing cover instrumentalities for operational activities and development programs.

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OFFICE OF SCIENTIFIC INTELLIGENCE

MISSION. The Assistant Director for Scientific Intelligence is charged with establishing and maintaining the Agency scientific and technical intelligence production program; with producing scientific and technical intelligence in accordance with the responsibilities of the Agency; with supporting Agency and inter-agency scientific and technical intelligence collection; with implementing the Director's coordination responsibilities in scientific and technical intelligence; and with providing advice and making recommendations on scientific and technical intelligence matters to the Director of Central Intelligence and other officers and Offices of the Agency. The responsibility of the Assistant Director for Scientific Intelligence extends to intelligence on scientific and engineering research and on the design, development, characteristics, and performance capabilities of foreign devices, products, equipments, and systems. It does not, in general, extend to intelligence on organizations, technology or capabilities relating to production and construction activities; force levels and deployment or weapons systems; and general economic factors related to costs, budgets, and resource availabilities except that the Assistant Director for Scientific Intelligence is responsible for all aspects of intelligence on atomic energy.

FUNCTIONS. The Assistant for Scientific Intelligence shall:

- (a) Establish and maintain, on the basis of the Priority National Intelligence Objectives (PNIO) and other national security requirements a coordinated program of collection support, research, analysis, and production of intelligence in all aspects of foreign atomic energy activities on the scientific and technical aspects of the following:
 - (1) Foreign biological and chemical warfare activities,
 - (2) Foreign offensive weapons and weapons systems research and development, including the identification of ground support equipment and basic site configurations.

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OFFICE OF SCIENTIFIC INTELLIGENCE

- (3) Foreign defensive weapons and weapons systems research and development, including the identification of ground support equipment and basic site configurations.
- (4) Foreign space activities.
- (5) Foreign research and development in the life sciences, including the control sciences.
- (6) Foreign research and development in the physical and engineering sciences, and in scientific resources, including scientific manpower, facilities, organization, administration, and planning.
- (b) Produce intelligence in the above fields in the form of contributions to National Intelligence Estimates and surveys; contributions to current intelligence and USIB-committee publications; scientific intelligence reports, periodicals and collection support studies of various types; and other reports, critiques, briefings, working papers, and studies as required.
- (c) Recommend collection priorities consistent with the PNIO's and the scientific and technical intelligence program, recommend new and improved techniques and systems for the collection and collation of such intelligence, and provide collection support to the EDI, collective components of the Agency, and other organizations.
- (d) Correlate, evaluate, supplement, and help to coordinate the scientific and technical intelligence activities of other U. S. and friendly foreign agencies to meet the needs of the Director and other officers and Offices of the Agency in the fulfillment of their assigned responsibilities, and provide advice to them on methods for improving such inter-agency cooperation.
- (e) Provide the chairman, secretariat, Agency representative, and/or support for the Joint Atomic Energy Intelligence Committee, the Scientific Intelligence Committee, the Guided Missile and Astronautics Intelligence Committee, and other USIB organizations as required.

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FOREIGN MISSILE AND SPACE ANALYSIS CENTER

MISSION:

The Director, Foreign Missile and Space Analysis Center, is responsible for establishing and maintaining suitable facilities and an analytical staff of high competency in missile and space sciences in order to exploit, on a timely basis, the national collection assets directed against foreign missile and space programs; evaluation of collection systems as directed by the DCI; conducting complete analyses of data, from all collection activities and resources, on foreign missile firings and space events; and reporting the assessments of these data to the DCI and appropriate elements of the government; staffing and operation of the FMSAC Control Center on a continuous-duty basis.

FUNCTIONS:

The Director, Foreign Missile and Space Analysis Center, shall:

- a. Develop and maintain a technical staff, liaison relationships, and consultant/contract groups to coordinate the national capabilities for the analysis and assessment of all-source data on foreign missile and space activities.

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b. Within the limitations of current government directives and Agency agreements, utilize the best of the national capabilities in the missile and space fields for the exploitation on a timely basis of collection assets and activities maintained and operated by the military services and civilian agencies.

c. Establish and operate the FMSAC Control Center on a continuous-duty basis to provide displays of the status and posture of significant foreign missile and space activities, and, on a quick-reaction basis, expert interpretations of foreign missile firings and space activities.

d. From the analyses of raw data, knowledge of intelligence gaps, and operational aspects of collection techniques or systems, make appropriate recommendations for the utilization, improvement, cessation, or redirection of these assets.

e. Work jointly with the several collection agencies in the processing and analysis of raw data from foreign missile and space events, and make appropriate recommendations for the improvement of equipment and format to make these data more useful.

f. Perform complete technical analyses and assessments of all available data on Soviet missile and space firings and report the results therefrom through appropriate channels and publications. Work in close coordination with the GMAIC; report to USIB through the GMAIC as appropriate.

g. Process and analyze all available information pertaining to the trajectories of foreign ballistic missiles, earth satellites, and space vehicles; evaluate new types of trajectory data and integrate this with other information for the production of highly accurate trajectories.

h. Review, research, and evaluate new ELINT material and all-source data on re-entry phenomena and integrate the results into existing data files and reports.

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